

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs                                      | Default Operator | Plurals | Time Stamp          |
|-------|------|---|--|------------------|---------|---------------------|
| L1    | 4    | ((("5827319") or ("7449011")).PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2010/11/02<br>13:51 |
| L2    | 5812 | ((606/191,198) or<br>(604/.164.01,104,264)).CCLS.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2010/11/02<br>13:55 |
| L3    | 415  | I2 and expand\$5 same thread\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2010/11/02<br>13:56 |
| L4    | 228  | I3 and dilat\$5   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2010/11/02<br>13:56 |
| L5    | 6500 | ((606/191,198) or<br>(604/104,164.01,264)).CCLS.  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2010/11/02<br>13:59 |
| L7    | 8    | "I6" and dilation and expansion.<br>clm.  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2010/11/02<br>13:59 |
| S1    | 1969 | (606/191,198).CCLS.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2007/03/09<br>11:50 |
| S2    | 52   | S1 and (trocar same (expand<br>expandable))   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2007/03/09<br>12:30 |
| S3    | 10   | S2 and (braid braided)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2007/03/09<br>11:54 |
| S4    | 257  | ("1213001"   "1248492"  <br>"2548602"   "3509883"  <br>"3545443"   "3742958"  <br>"3788318"   "3789852"  <br>"3902492"   "3952748"  <br>"4018230"   "4141364"  <br>"4411655"   "4447237"  <br>"4479497"   "4581025"  <br>"4589868"   "4601713"  <br>"4610688"   "4650466"  <br>"4710181"   "4716901"  <br>"4738666"   "4739762"  <br>"4753636"   "4762128"  <br>"4772266"   "4798193"  <br>"4846791"   "4865593"  <br>"4869717"   "4888000"  <br>"4896669"   "4899729"  <br>"4921479"   "4941874"  <br>"4954126"   "4955895"  <br>"4972827"   "4986830" | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2007/03/09<br>12:47 |

|    |     |  |  |    |     |                     |
|----|-----|--|--|----|-----|---------------------|
|    |     | "5021241"   "5045056"<br>"5078736"   "5084057"<br>"5100388"   "5100420"<br>"5104382"   "5112304"<br>"5116318"   "5139511"<br>"5158545"   "5183464"<br>"5188602"   "5201756"<br>"5222938"   "5222971"<br>"5234425"   "5246424"<br>"5250025"   "5275611"<br>"5279554"   "5290276"<br>"5304119"   "5312360"<br>"5316360"   "5320611"<br>"5383859"   "5403278"<br>"5407430"   "5431655"<br>"5431676"   "5433676"<br>"5433708"   "5437631"<br>"5437644"   "5453094"<br>"5454825"   "5460170"<br>"5484403"   "5487739"<br>"5540658"   "5542928"<br>"5573517"   "5601559"<br>"5662614"   "5674240"<br>"5713867"   "5746720"<br>"5800390"   "5800409"<br>"5814058"   "5824002"<br>"5827319"   "5836913"<br>"5873854"   "5882345"<br>"5944691"   "5957902"<br>"5961499"   "5971960"<br>"0590228"   "6030364"<br>"6063060"   "6077248"<br>"6080174"   "6083241"<br>"6095967"   "6146400"<br>"6162236"   "6210376"<br>"6235020"   "6245052"<br>"6283950"   "6293909"<br>"6306124"   "6325789"<br>"6325812"   "0668879").PN. |  |    |     |                     |
| S5 | 36  | S2 and (thread threaded)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2007/03/09<br>12:30 |
| S6 | 36  | S5 and (expand expandable)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2007/03/09<br>12:30 |
| S7 | 377 | (trocar with (expandable<br>expanding expand))   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2007/03/09<br>12:48 |
| S8 | 30  | S7 and (thread thread) same<br>trocar  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2007/03/09<br>12:48 |
| S9 | 68  | S7 and (thread threaded) same<br>trocar  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2007/03/09<br>12:51 |

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|-----|-----|--|--|----|-----|---------------------|
| S10 | 41  | (richard near gresham).in.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2007/03/09<br>12:52 |
| S11 | 40  | (thomas near wenchell).in.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2007/03/09<br>12:55 |
| S12 | 11  | (robert near desantis).in.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2007/03/09<br>12:58 |
| S13 | 299 | S1 and ((expand expanding<br>expandable) with sheath)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2007/03/09<br>12:59 |
| S14 | 121 | S13 and (thread threaded)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2007/03/09<br>13:03 |
| S15 | 59  | S7 and (braid braided)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2007/03/09<br>13:03 |
| S16 | 2   | ("20040172041").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2007/03/12<br>12:30 |
| S17 | 5   | ((("6080174") or ("6162236")).PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2007/12/19<br>14:39 |
| S18 | 45  | ("0668879"   "1213001"  <br>"1248492"   "2548602"  <br>"3545443"   "3742958"  <br>"3789852"   "3902492"  <br>"4018230"   "4141364"  <br>"4411655"   "4479497"  <br>"4581025"   "4589868"  <br>"4601713"   "4716901"  <br>"4738666"   "4739762"  <br>"4772266"   "4798193"  <br>"4846791"   "4865593"  <br>"4869717"   "4888000"  <br>"4896669"   "4899729"  <br>"4921479"   "4955895"  <br>"4972827"   "4986830"  <br>"5112304"   "5116318"  <br>"5122122"   "5139511"  <br>"5183464"   "5201756"  <br>"5222971"   "5234425"  <br>"5250025"   "5460170").PN. | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2008/02/21<br>12:54 |
| S19 | 14  | S18 and (thread threaded)  | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2008/02/21<br>12:55 |
| S20 | 18  | ("6080174").URPN.  | USPAT                                    | OR | OFF | 2008/02/21<br>12:58 |
| S21 | 11  | S20 and (thread threaded)  | USPAT                                    | OR | OFF | 2008/02/21<br>13:01 |

|     |      |  |  |                           |    |     |                     |
|-----|------|--|--|---------------------------|----|-----|---------------------|
| S22 | 42   | (<br>"1527291"<br>"4869717"<br>"5114407"<br>"5139485"<br>"5256148"<br>"5290276"<br>"5312351"<br>"5383859"<br>"5421821"<br>"5423770"<br>"5437643"<br>"5562611"<br>"5695462"<br>"5746720"<br>"5814058"<br>"5857999"<br>"6156006"<br>"6245052"<br>"6325812"<br>"6494893"<br>"6656160").PN.  | "4808168"<br>"5098388"<br>"5137509"<br>"5183464"<br>"5284474"<br>"5300084"<br>"5320608"<br>"5389077"<br>"5423760"<br>"5431676"<br>"5454790"<br>"5669883"<br>"5713874"<br>"5810776"<br>"5827319"<br>"6080174"<br>"6193692"<br>"6293952"<br>"6447527"<br>"6589225"   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/02/21<br>13:16 |
| S23 | 67   | (<br>"0668879"<br>"1248492"<br>"3509883"<br>"3789852"<br>"4018230"<br>"4411655"<br>"4479497"<br>"4589868"<br>"4610688"<br>"4716901"<br>"4739762"<br>"4789193"<br>"4865593"<br>"4888000"<br>"4899729"<br>"4954126"<br>"4972827"<br>"5078736"<br>"5112304"<br>"5122122"<br>"5158545"<br>"5188602"<br>"5222938"<br>"5234425"<br>"5250033"<br>"5312360"<br>"5320611"<br>"5407430"<br>"5433708"<br>"5460170"<br>"5542928"<br>"6080174").PN. | "1213001"<br>"2548602"<br>"3742958"<br>"3902492"<br>"4141364"<br>"4447237"<br>"4581025"<br>"4601713"<br>"4650466"<br>"4738666"<br>"4772266"<br>"4846791"<br>"4869717"<br>"4896669"<br>"4921479"<br>"4955895"<br>"4986830"<br>"5100388"<br>"5116318"<br>"5139511"<br>"5183464"<br>"5201756"<br>"5222971"<br>"5250025"<br>"5275611"<br>"5316360"<br>"5392766"<br>"5431676"<br>"5454790"<br>"5540658" | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/02/21<br>13:22 |
| S24 | 21   | S23 and (thread threaded)  |  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/02/21<br>13:23 |
| S25 | 4895 | dilat\$5 near (catheter sheath)  |  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/02/21<br>13:25 |

|     |      |  |  |    |     |                     |
|-----|------|--|--|----|-----|---------------------|
| S26 | 2247 | "606"/\$.ccls. and (dilat\$5 near (catheter sheath))   | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2008/02/21<br>13:26 |
| S27 | 157  | S26 and trocar   | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2008/02/21<br>13:26 |
| S28 | 109  | S27 and (thread threaded)  | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2008/02/21<br>13:26 |
| S29 | 2378 | "604"/\$.ccls. and (dilat\$5 near (catheter sheath))   | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2008/02/21<br>13:26 |
| S30 | 143  | S29 and trocar   | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2008/02/21<br>13:27 |
| S31 | 116  | S30 and (thread threaded)  | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2008/02/21<br>13:27 |
| S32 | 11   | ("3789852"   "4000739"  <br>"5127627"   "5201756"  <br>"5221264"   "5256150"  <br>"5312360"   "5318588"  <br>"5330437"   "5397335"  <br>"5411483").PN. | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2008/02/21<br>13:37 |
| S33 | 6    | ("5827227").URPN.  | USPAT                                    | OR | OFF | 2008/02/21<br>13:40 |
| S34 | 2167 | (606/191,198).CCLS.  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/08/19<br>14:36 |
| S35 | 751  | S34 and access   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/08/19<br>14:36 |
| S36 | 134  | S35 and dilation and expansion   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/08/19<br>14:37 |
| S37 | 2853 | (trocar cannula) and obturator   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/12/19<br>12:02 |
| S38 | 287  | S37 and (trocar cannula) with (threaded helix helical)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/12/19<br>12:03 |
| S39 | 2    | ("5911714").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/12/19<br>12:11 |
| S40 | 2    | ("6767355").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/12/19<br>12:41 |
| S41 | 0    | (5/911714).CCLS.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2009/09/28<br>10:45 |
| S42 | 2    | ("5911714").PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2009/09/28<br>10:45 |
| S43 | 8    | (dry adj wall) with (screw fastener) with expand\$5  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/20<br>14:42 |

|     |      |   |  |    |     |                     |
|-----|------|---|--|----|-----|---------------------|
| S44 | 2053 | trocac and obturator  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/20<br>14:43 |
| S45 | 192  | S44 and trocac with expand\$5   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/20<br>14:44 |
| S46 | 1    | threaded near (expander<br>obturator) with (sheath trocac)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/20<br>15:00 |
| S47 | 22   | threaded near6 (expander<br>obturator) with (sheath trocac)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/20<br>15:00 |
| S48 | 955  | threaded near6 (expander<br>obturator)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/20<br>15:04 |
| S49 | 38   | S48 and expand\$5 with sheath   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/20<br>15:04 |
| S50 | 2    | ("5836913").PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/20<br>15:10 |
| S51 | 13   | ("3915171"   "4496345"  <br>"4617933"   "5002557"  <br>"5041093"   "5176697"  <br>"5188602"   "5209754"  <br>"5267970"   "5344439"  <br>"5421832"   "5454790"  <br>"5540658").PN.   | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2010/05/20<br>15:13 |
| S52 | 2    | ("7449011").PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/20<br>15:20 |
| S53 | 123  | ("0668879"   "1213001"  <br>"1248492"   "2548602"  <br>"3509883"   "3545443"  <br>"3742958"   "3788318"  <br>"3789852"   "3902492"  <br>"4018230"   "4141364"  <br>"4411655"   "4447237"  <br>"4479497"   "4581025"  <br>"4589868"   "4601713"  <br>"4610688"   "4650466"  <br>"4710181"   "4716901"  <br>"4738666"   "4739762"  <br>"4753636"   "4762128"  <br>"4772266"   "4798193"  <br>"4846791"   "4865593"  <br>"4869717"   "4888000"  <br>"4896669"   "4899729"  <br>"4921479"   "4941874"  <br>"4954126"   "4955895"  <br>"4972827"   "4986830"  <br>"5021241"   "5045056"  <br>"5078736"   "5100388"  <br>"5104382"   "5112304"  <br>"5116318"   "5122122" | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2010/05/20<br>15:32 |

|     |      |  |  |    |     |                     |
|-----|------|--|--|----|-----|---------------------|
|     |      | "5139511"   "5158545"<br>"5183464"   "5188602"<br>"5201756"   "5222938"<br>"5222971"   "5234425"<br>"5246424"   "5250025"<br>"5250033"   "5275611"<br>"5279554"   "5290276"<br>"5304119"   "5312360"<br>"5316360"   "5320611"<br>"5383859"   "5392766"<br>"5403278"   "5407430"<br>"5431655"   "5431676"<br>"5433708"   "5437631"<br>"5437644"   "5453094"<br>"5454790"   "5460170"<br>"5484403"   "5487739"<br>"5540658"   "5542928"<br>"5573517"   "5601559"<br>"5662614"   "5674240"<br>"5713867"   "5735867"<br>"5746720"   "5800390"<br>"5800409"   "5814058"<br>"5824002"   "5827319"<br>"5836913"   "5873854"<br>"5882345"   "5902282"<br>"5944691"   "5957902"<br>"5961499"   "5971960"<br>"6030364"   "6063060"<br>"6077248"   "6080174"<br>"6095967"   "6146400"<br>"6162236"   "6197014"<br>"6210376"   "6245052"<br>"6283950"   "6293909"<br>"6306124"   "6325789"<br>"6325812").PN. |  |    |     |                     |
| S54 | 63   | threaded near6 (expander obturator) and (sheath cannula lumen) with expand\$5  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/20<br>15:55 |
| S55 | 22   | ((("5971958") or ("7449011") or ("3736934") or ("1059631") or ("6245052") or ("5320611") or ("7001333"))).PN.  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/21<br>12:30 |
| S56 | 26   | ("1059631").URPN.  | USPAT                                    | OR | OFF | 2010/05/21<br>12:34 |
| S57 | 0    | ("7449011").URPN.  | USPAT                                    | OR | OFF | 2010/05/21<br>12:35 |
| S58 | 1082 | ((604/164.01) or (128/856) or (600/202,208)).CCLS.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/21<br>12:36 |
| S59 | 19   | S58 and (obturator access) with (threads threaded)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/21<br>12:36 |
| S60 | 3104 | "411"/\$.ccls. and threaded with (opening aperture)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/21<br>12:47 |

|     |     |   |  |    |     |                     |
|-----|-----|---|--|----|-----|---------------------|
| S61 | 839 | S60 and expand\$5   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/21<br>12:47 |
| S62 | 25  | S61 and ((threads threaded) with<br>external with (tube tubular)) | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2010/05/21<br>12:48 |

**EAST Search History (Interference)**

| Ref # | Hits | Search Query                                     | DBs  | Default<br>Operator | Plurals | Time Stamp       |
|-------|------|--|------|---------------------|---------|------------------|
| L6    | 36   | ((606/191,198) or<br>(604/104,164.01,264)).CCLS. | UPAD | OR                  | OFF     | 2010/11/02 13:59 |

**11/ 2/ 10 2:12:32 PM**

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introduction apparatus and method.wsp**